

Newsletter

Issue No 04, 30 November 2014



IIESL – UAE BRANCH 9th ANNUAL SESSIONS

IIESL UAE Branch held their 9th Annual Sessions on 31st October 2014 at Barracuda Beach Resort, Umm Al Quwain, UAE.

Over 60 IIESL members and their families participated this grand event. The President of IIESL Eng. Pani Kavikeshawa and Chairman Regional Affairs Committee Eng. S B Udukumbura represented the IIESL Headquarters and graced the occasion. Eng. Pani Kavikeshawa delivered an invaluable speech on incorporated engineers role in ancient engineering marvels of Sri Lanka.

Eng. Dhammika Gamage delivered a speech on professional development which was well received by the attendees.

IIESL UAE Branch is looking forward to the next, the 10th. Annual Sessions to demonstrate its strength of unity.



FORTHCOMING BRANCH ACTIVITIES

Please visit IIESL UAE Branch web site for forthcoming CPD events: www.iiesluae.org

ENGLISH GRAMMAR TIP

Use figures (even when the numbers are less than 10) for numbers of technical significance: percentages, pages, sizes, money, measurements, clock time, coordinates, etc.

e.g. See page 6 for the explanation.

Since 2004, turnover has been approximately 9 percent.

Tickets for the 2 p.m. webcast are almost sold out.

Now I know:

It is very important to build the habit of always turning off my cell phone ringer when entering a meeting, training class, lecture, seminar or other place where the purpose of my visit would be interrupted or others would be disturbed by hearing my cell phone ring. If I am expecting an important call, I will excuse, inform that it is an urgent call, leave the meeting and answer the call.

Tip: if I do not know how to turn my phone to silent mode, I will ask my colleague for assistance or turn off the phone.

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BUILDING INFORMATION MODELLING (BIM) IN CONSTRUCTION INDUSTRY

The construction industry has reaped wide spread of attention with the introduction of Building Information Modelling (BIM). Advancement of Information Technology has made this contribution and made a gigantic revolution in the construction industry. BIM help clients, developers, architects, structural engineers, building service engineers, interior designers, contractors, subcontractors, fabricators, end users to view fully integrated final product by a click of a button. The most significant feature in BIM is the facility to coordinate all disciplines in a single model on a single platform. These models generated in every design phase in three dimension provide accurate analysis and control than traditional two dimensional manual processes. Completed computer generated models contain precise geometry and information which highly support procurement, construction and fabrication activities throughout various phases of projects .

BIM has a wide range of quantitative and qualitative benefits. BIM model can be used to test the constructability of the project design prior to commencing construction. Other benefits are listed below:

Pre-Construction Stage;

- More realistic information to carryout feasibility and project conceptualization.
- Ability to foresee issues and increase building quality and performance.
- More accurate and early visualization of the design.
- Automatic correction to designs.
- Ability to produce accurate 2D drawings at any stage of design.
- Early collaboration of multiple disciplines.
- Easy verification/validation against the design intent.
- Quick in preparation of cost estimates during design stage.
- Early information to improve the energy efficiency and sustainability options.

Construction and Fabrication Stage ;

- Design model is used to fabricate components.
- Early identification of design errors prior to fabrication/construction.
- Efficient synchronization of design and construction planning .
- Easy application of lean construction technologies.
- Easy synchronization of design and construction with procurement.

Post Construction Stage;

- Easy handover to facility management with commissioning information.
- Ready information for facilities management and operation.
- Easy integration of facility management systems and facility operations with design.



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